

## ABSTRACT OF THE DISCLOSURE

A radio-frequency (RF) apparatus capable of transmitting RF signals includes transmitter path circuitry. The transmitter path circuitry includes a voltage-controlled oscillator (VCO) circuitry. The VCO circuitry generates a first signal that has a first frequency. A divider circuitry couples to the VCO circuitry and, in response to the first signal, the divider circuitry generates a second signal that has a second frequency. The frequency of the second signal equals the frequency of the first signal divided by a number.

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